

CTEH® Project No. 40402
West Fertilizer Plant Explosion
Preliminary Summary of Real-Time Hand-Held Monitoring Results
April 18, 2013

This data report discusses real-time air monitoring data collected between the time CTEH® arrived on Site and 9:55 on April 18, 2013 in support of remediation operations conducted near the West Fertilizer Plant Explosion in West, TX.

Hand-held real-time air monitoring was conducted for particulate matter (as PM₁₀), VOCs, ammonia (NH₃), nitrogen dioxide (NO₂), lower explosive limit (LEL) and oxygen (O₂) using handheld instruments including the AM510, MultiRAE and colorimetric detector tubes. The table below displays a data summary for the hand-held real-time¹.

Table 1
Preliminary Summary of Hand-Held Real-Time Data

Community					
Analyte	Instrument	Number of Readings	Number of Detections	Average of Detections	Highest Concentration
Ammonia (ppm)	MultiRAE	22	0	NA	< 1.0 ppm
Ammonia #3L (ppm)	Gastec	4	0	NA	< 0.2 ppm
LEL (%)	MultiRAE	1	0	NA	< 1 %
NO ₂ (ppm)	MultiRAE	2	0	NA	< 0.1 ppm
NO ₂ #9L (ppm)	Gastec	4	0	NA	< 0.1 ppm
O ₂ (%)	MultiRAE	2	2	20.9 %	20.9 %
PM ₁₀ (mg/m ³)	AM510	21	21	0.022 mg/m ³	0.19 mg/m ³
VOC (ppm)	MultiRAE	4	0	NA	< 0.1 ppm
Middle School					
Ammonia (ppm)	MultiRAE	1	0	NA	< 1.0 ppm

¹ While real-time air monitoring efforts conducted by CTEH® includes both hand-held and remote-telemetry stations, only the results from hand-held monitoring are included in this summary. Results from remote-telemetry stations will be included in future daily data deliverables. Please note: the data displayed here has not undergone QA/QC analysis and is presented in a preliminary format.